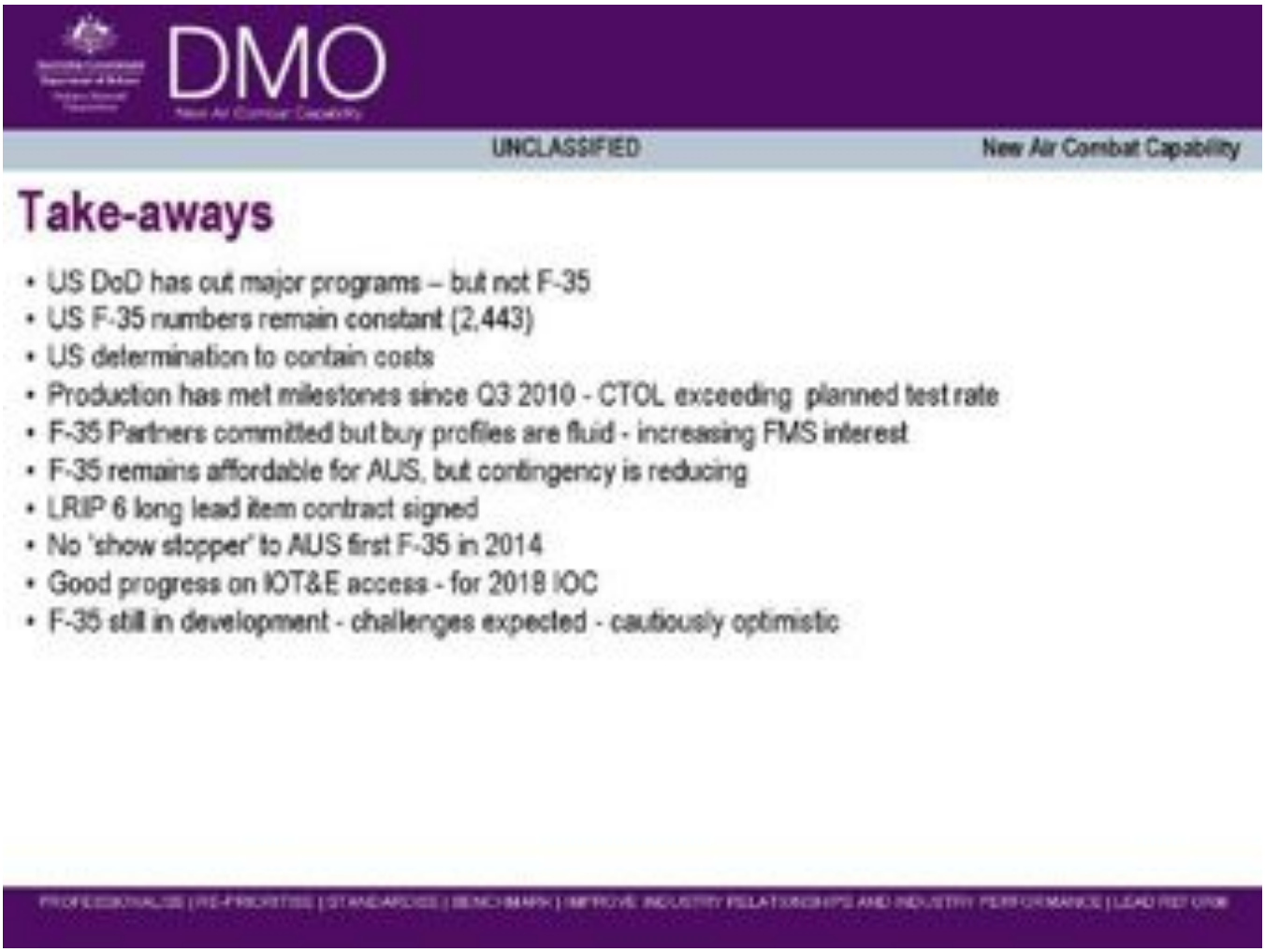
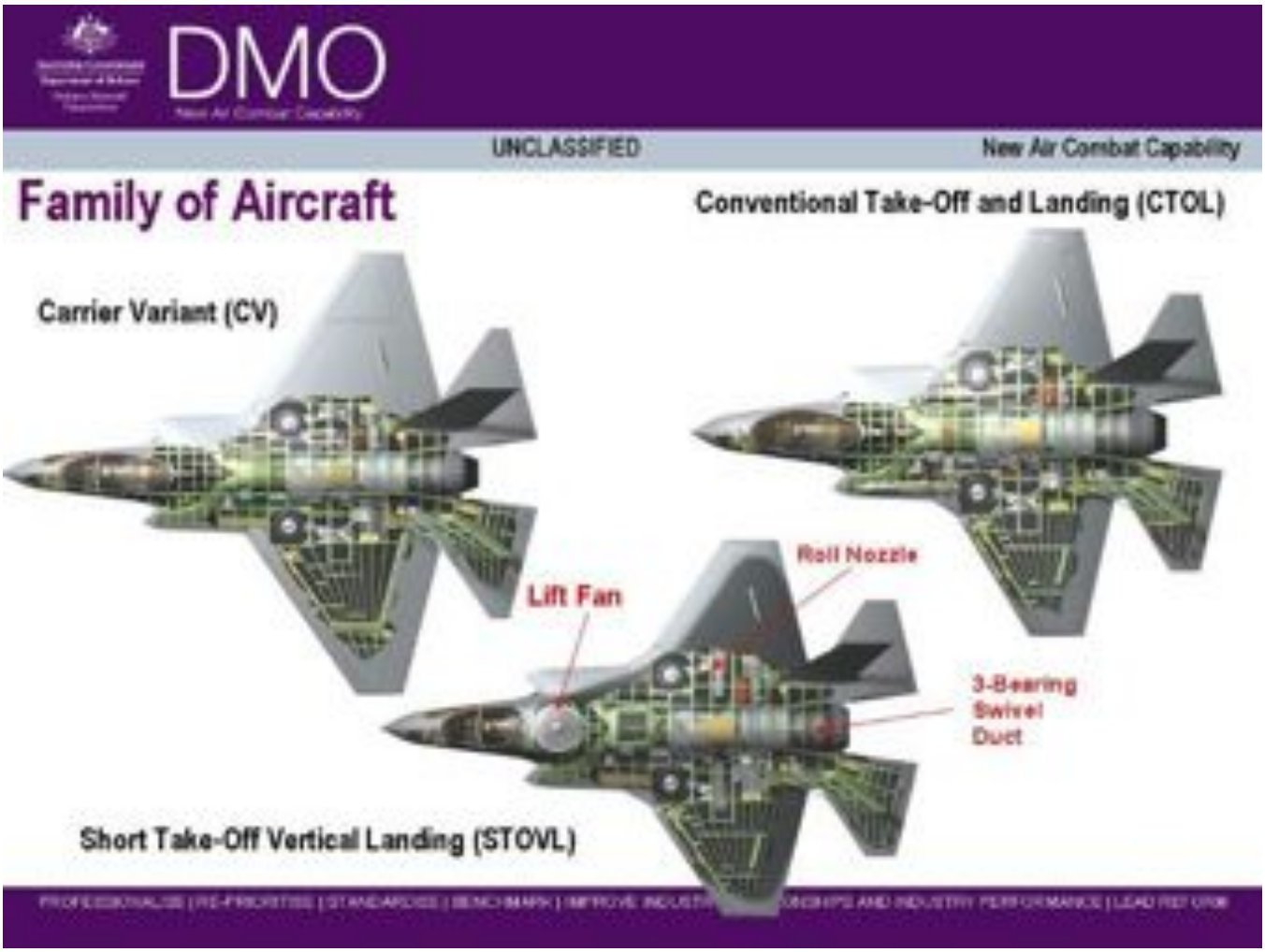
RUSI of Australia Website Presentation Transcript

UPDATE ON THE NEW AIR COMBAT CAPABILITY PROGRAM

Air Vice-Marshal Kym Osley AM CSC spoke to the USI of the ACT at the Australian Defence College at Weston Creek on Wednesday, 1 June 2011

The United Services Institute of the ACT hosted a presentation by Air Vice-Marshal Kym Osley, the Program Manager New Air Combat Capability (PM NACC) within the Defence Materiel Organisation. The NACC Program will deliver a new air combat capability which will replace that currently provided by F/A–18 aircraft along with the capability previously provided by the now retired F–111. Australia joined the Joint Strike Fighter (JSF) Program in October 2002 as one of eight international partners to the United States of America. While the Program remains subject to considerable overseas and domestic scrutiny, Australia's government support has not faltered. AVM Osley's presentation concentrated on the broader JSF Program and its progress to date. He addressed the efforts of the NACC Project Office to introduce into service the tremendous capability that the F–35 will bring to Australia.





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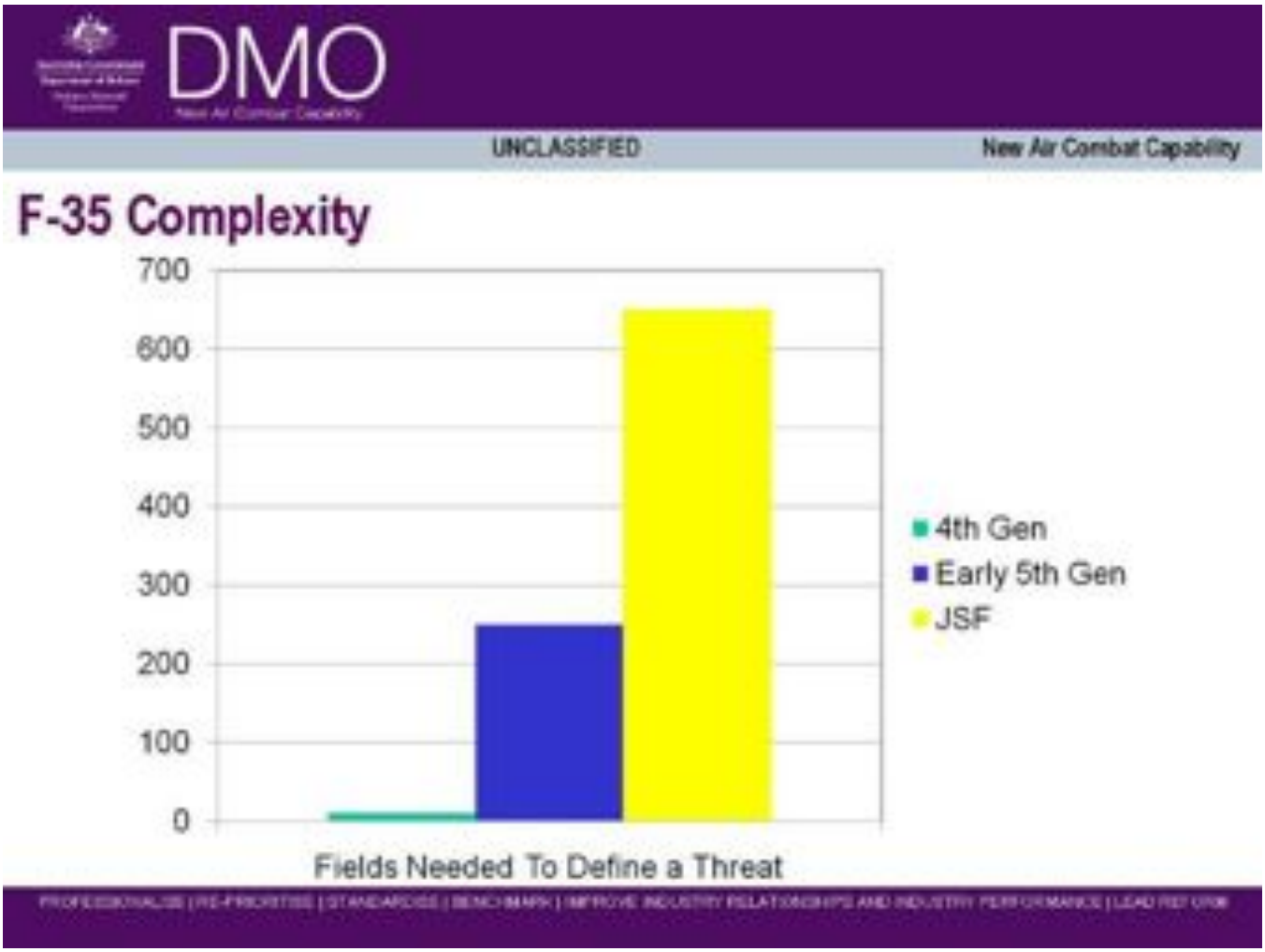
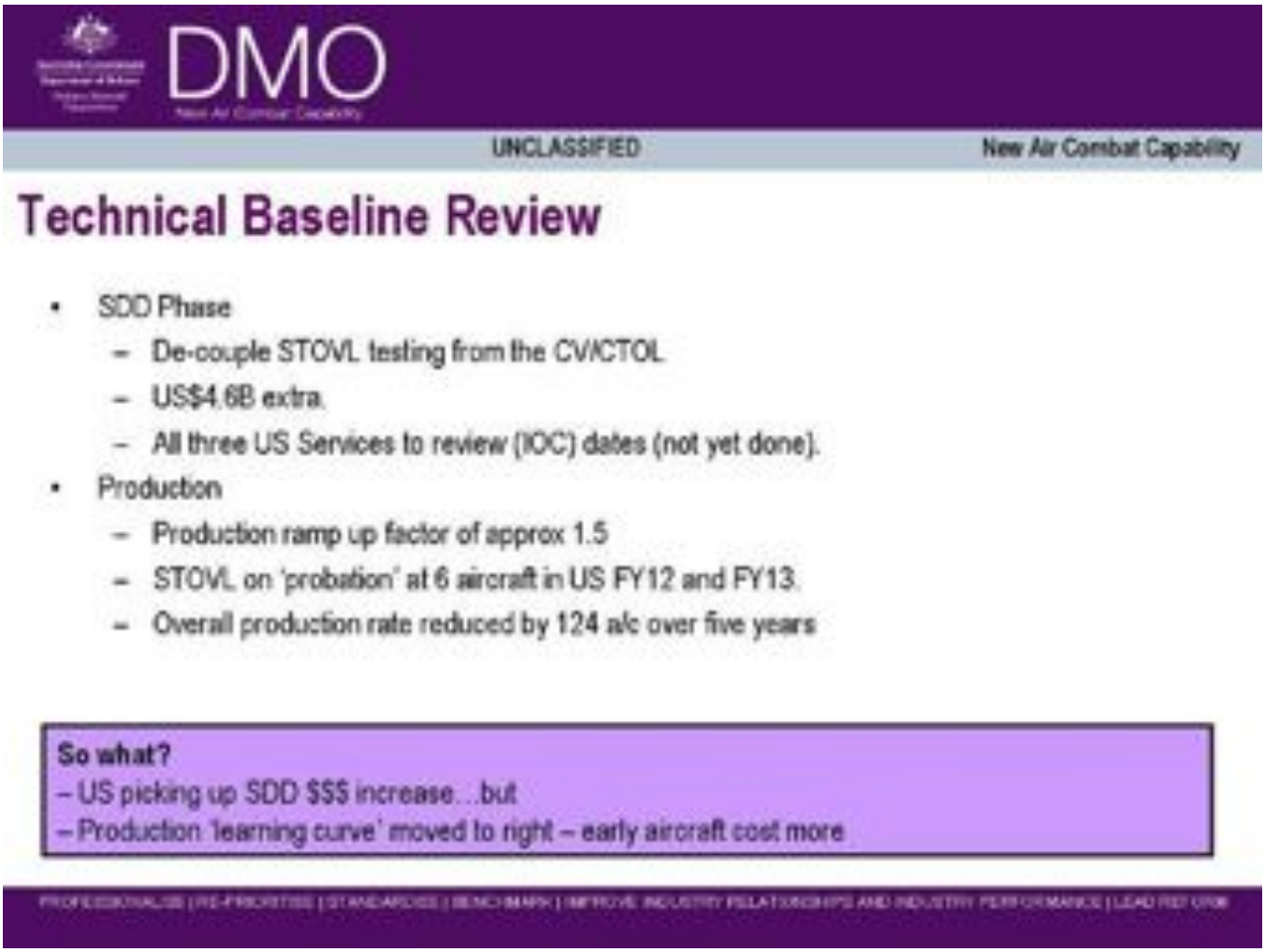
What is JSF?

The next generation "family" of strike fighters

- F-16/F/A-18C "like" aero performance
- Stealth Signature and Countermeasures
- Advanced avionics, data links and adverse weather precision targeting
- Increased range with internal fuel and weapons
- Highly supportable, state of the art prognostics and health management

Lethal Survivable Supportable Affordable





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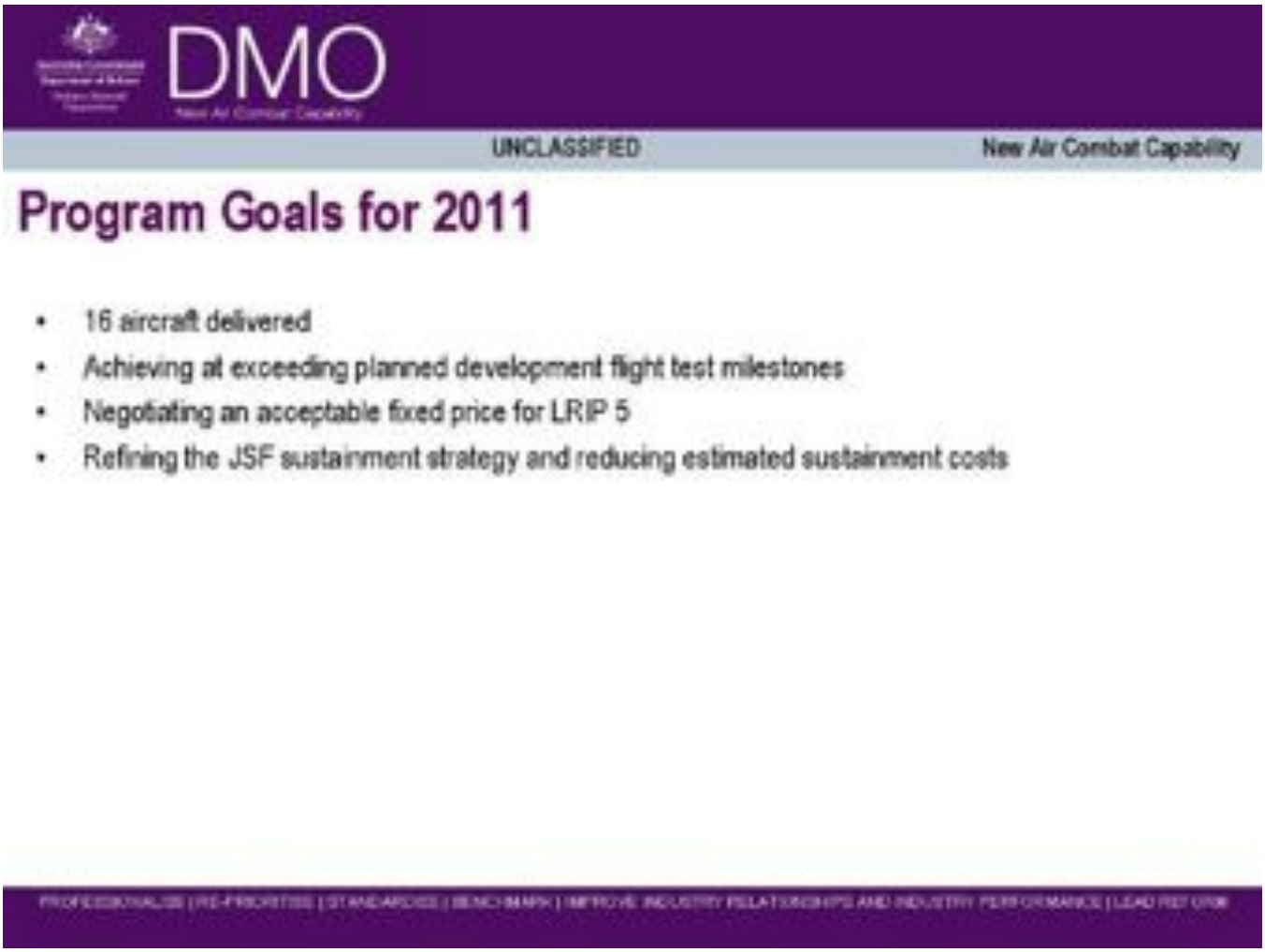
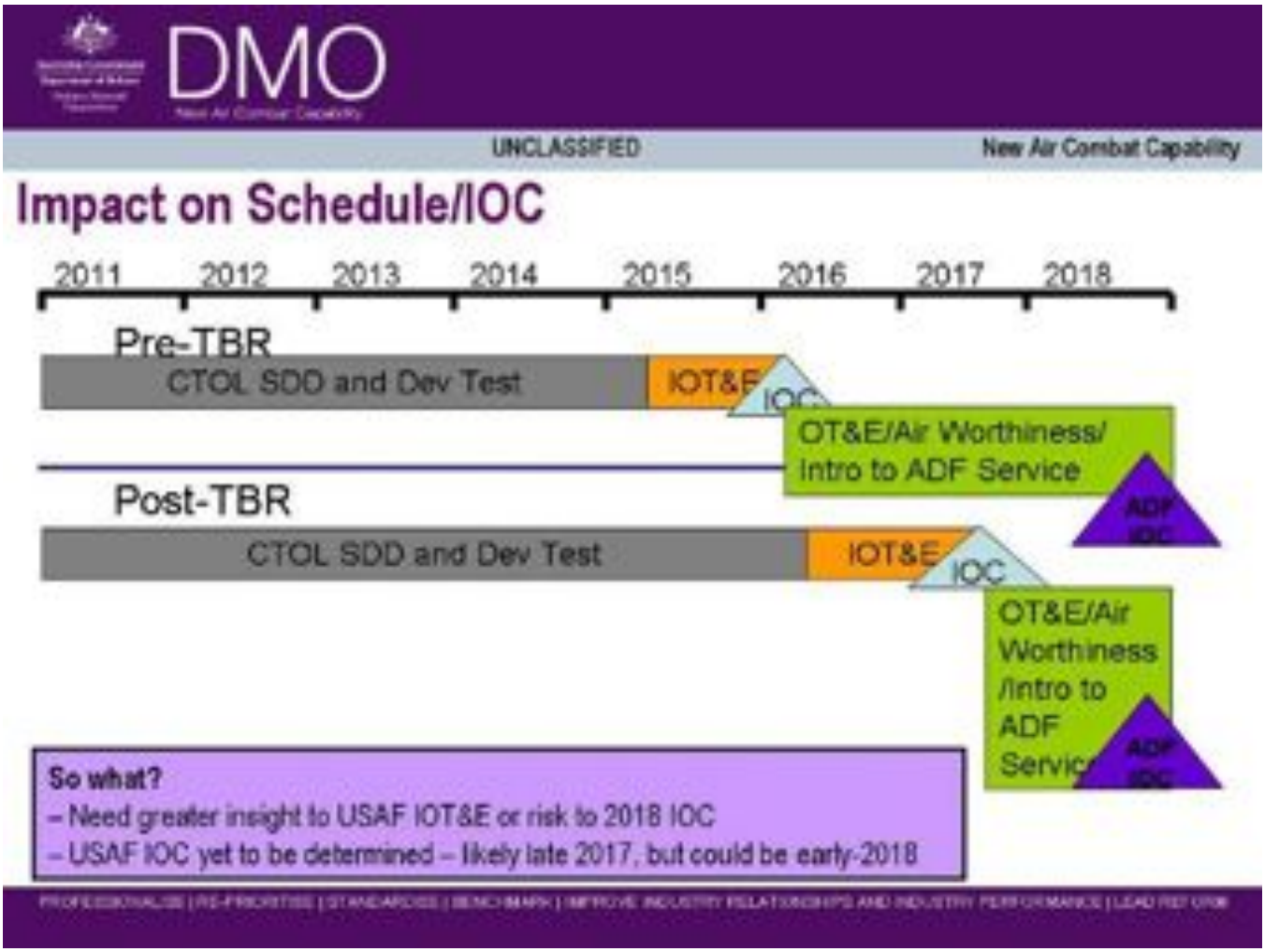
Technical Baseline Review cont.

- Implications for Australia
  - USAF to Australian IOC gap down from 2.5 yrs in 2010 to 6 -18 months (USAF still deciding IOC).
  - SAR 10 to be passed to Congress mid-2011

So what?
– Pressures on Australian IOC – from USAF IOT&E process and potential software delays
– Have some cost buffer for first 14 acft even if SAR 10 estimate proves to be correct





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Impact on Capability

- **Software Development**
  - High risk area for the program.
- **Helmet Mounted Display**
  - HMD suffering latency issues
  - Most noticeable with NVG usage
  - 2 stage remediation
    - Continue with current development
    - RFP for less integrated HMD

So what?
– Software – watch closely HMD – probably OK

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New Air Combat Capability

Impact on Capability

- F-35A (CTOL)
- 57 flights since 31 Mar 11
- 146 flights for 2011
- 2,260 aircraft planned across the Partnership
- F-35B (STOVL)
- 43 flights since 31 Mar 11
- 144 flights for 2011 (including 84 vertical landings)
- 540 aircraft planned across the Partnership
- F-35C (CV)
- 25 flights since 31 Mar 11
- 41 flights for 2011
- 340 aircraft planned across the Partnership

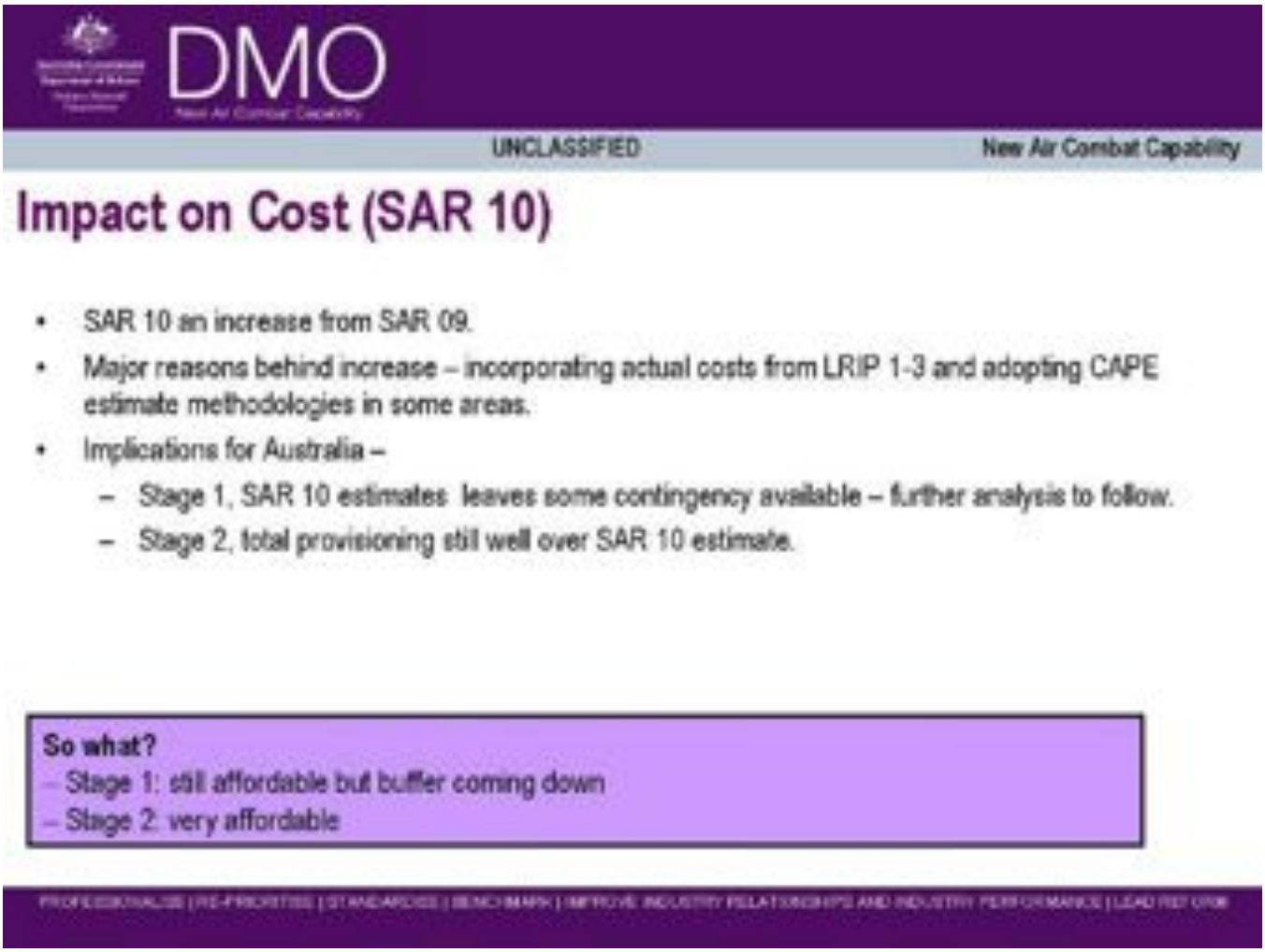
Total of 878 F-35 flights from the start of flight testing in Dec 06 to 10 May 11

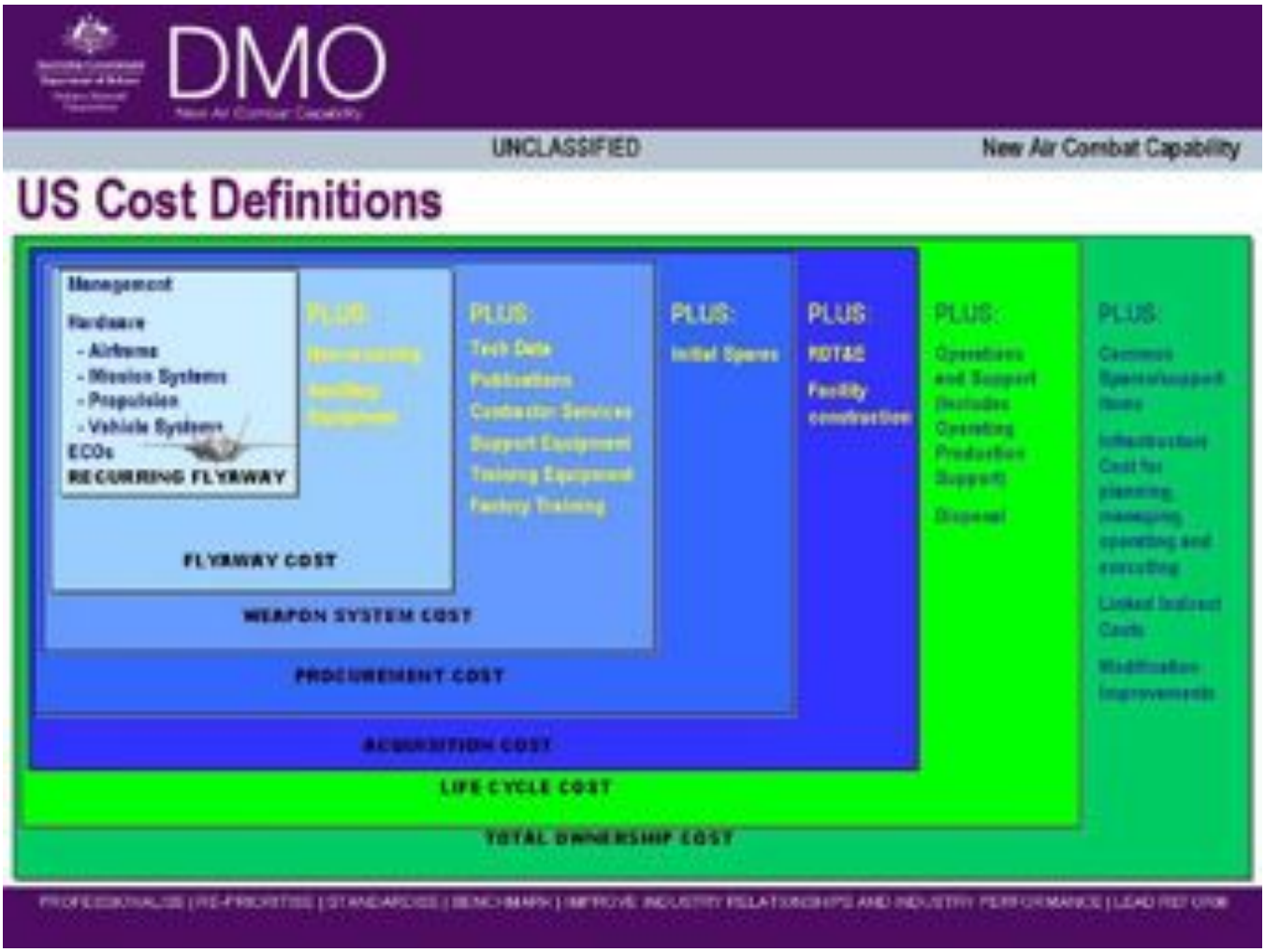
So what?

– Flight test going well

– All indications that will ultimately meet capability goals

PROFESSIONALISM | PEOPLE PRIORITISE | STANDARDISE | BENCHMARK | IMPROVE INDUSTRY RELATIONSHIPS AND INDUSTRY PERFORMANCE | LEAD REFORM





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Production Delay....

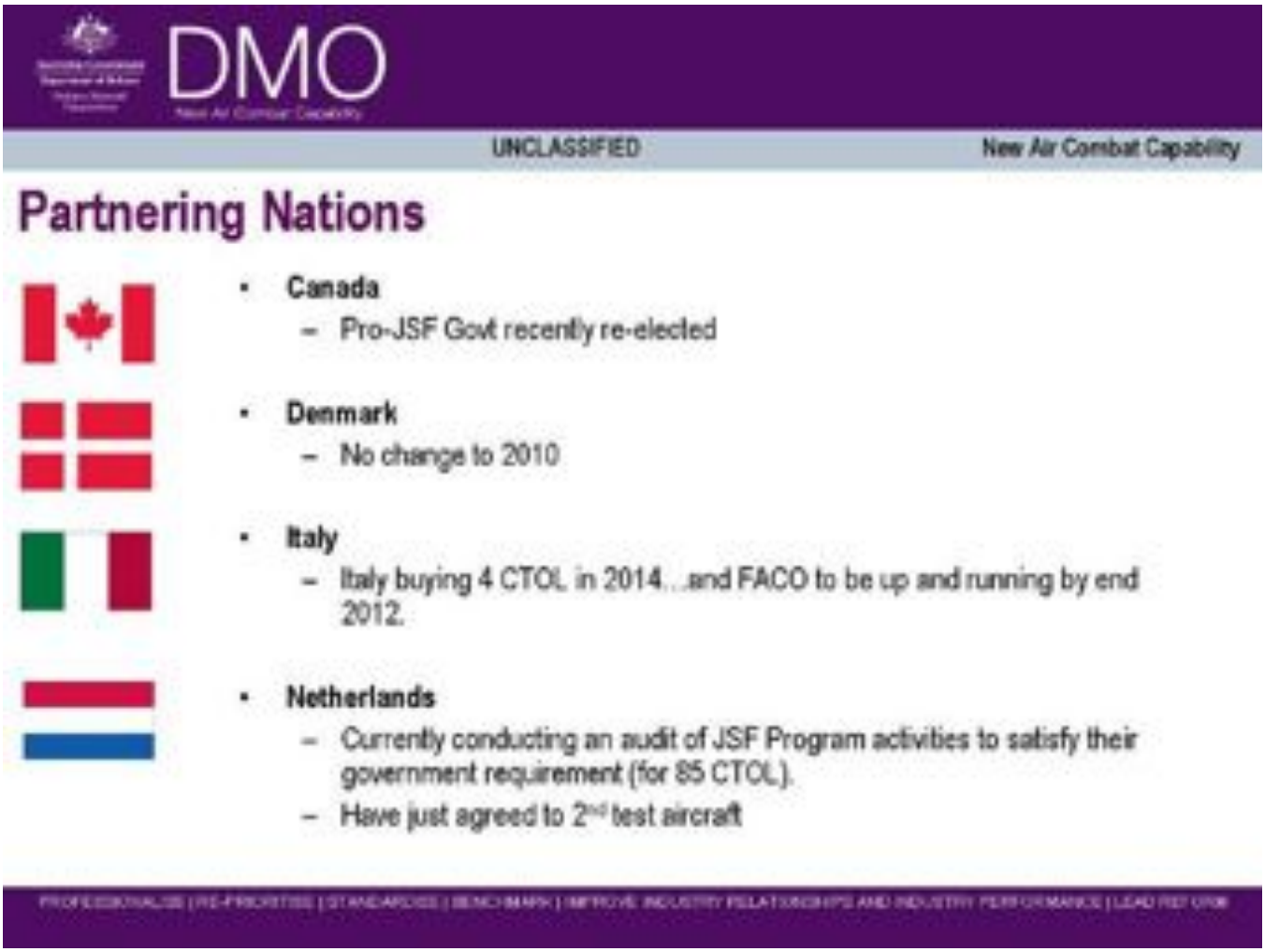
	LRIP1	LRIP2	LRIP3	LRIP4	LRIP5	LRIP6	LRIP7	LRIP8	LRIP9	LRIP10	LRIP11
Buy Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Del Year (+2)	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
CTOL	2	6	8	11	22	25 (64)	33(97)	76(173)	104(277)	134	162
CV	0	0	0	4	7	7	19	14	28	31	28
STOVL	0	6	9	17	3	6	18	20	22	29	28
Total	2	12	17	32	32	38	70	110	154	194	218
Total to Date	2	14	31	63	95	133	208	313	467	661	879

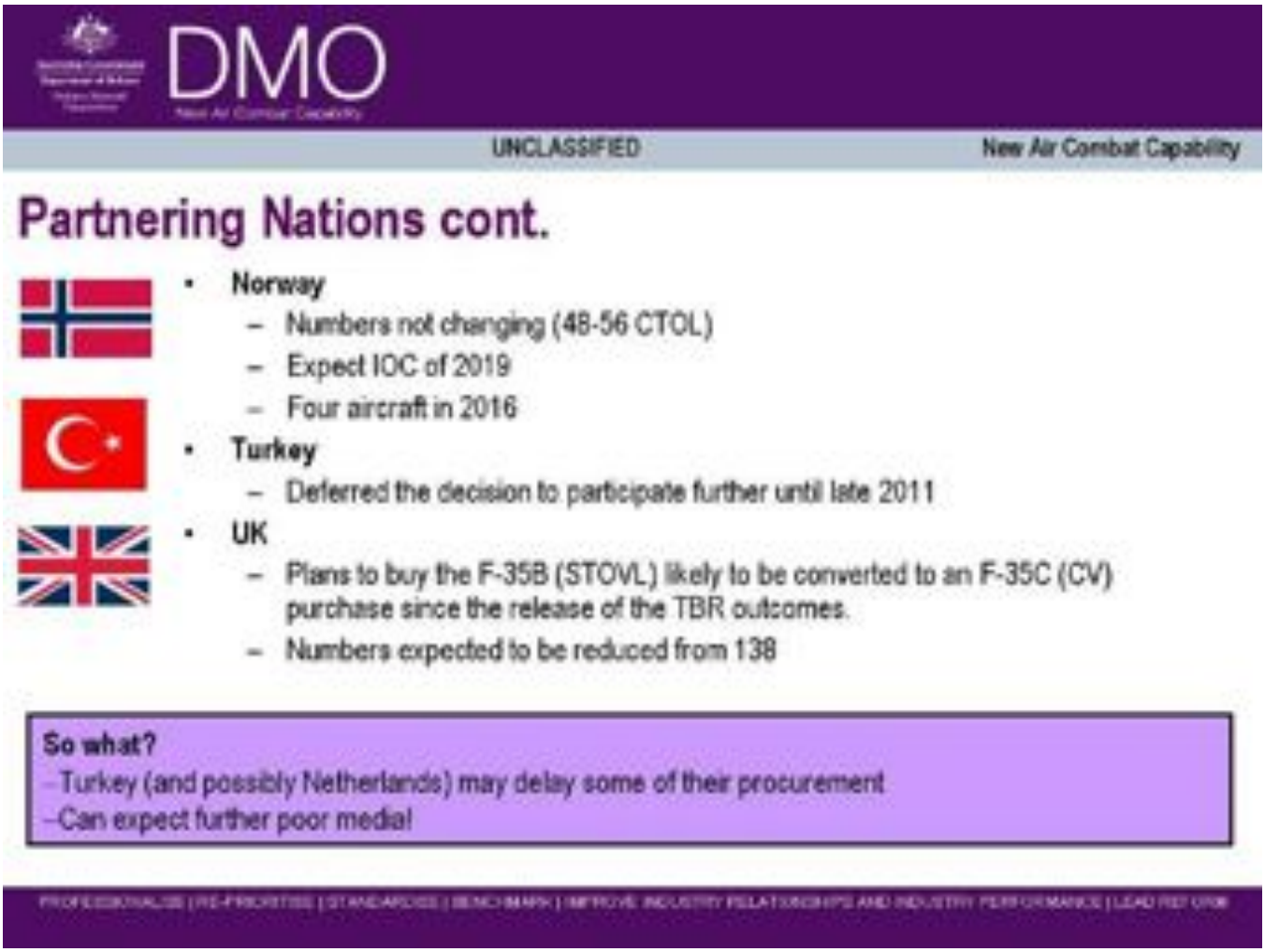
So what?

– 277 CTOL by end 2017

– 800+ JSF before multi-year buy starts

PROFESSIONALISE | RE-PRIORITISE | STANDARDISE | BENCHMARK | IMPROVE INDUSTRY RELATIONSHIPS AND INDUSTRY PERFORMANCE | LEAD REFORM





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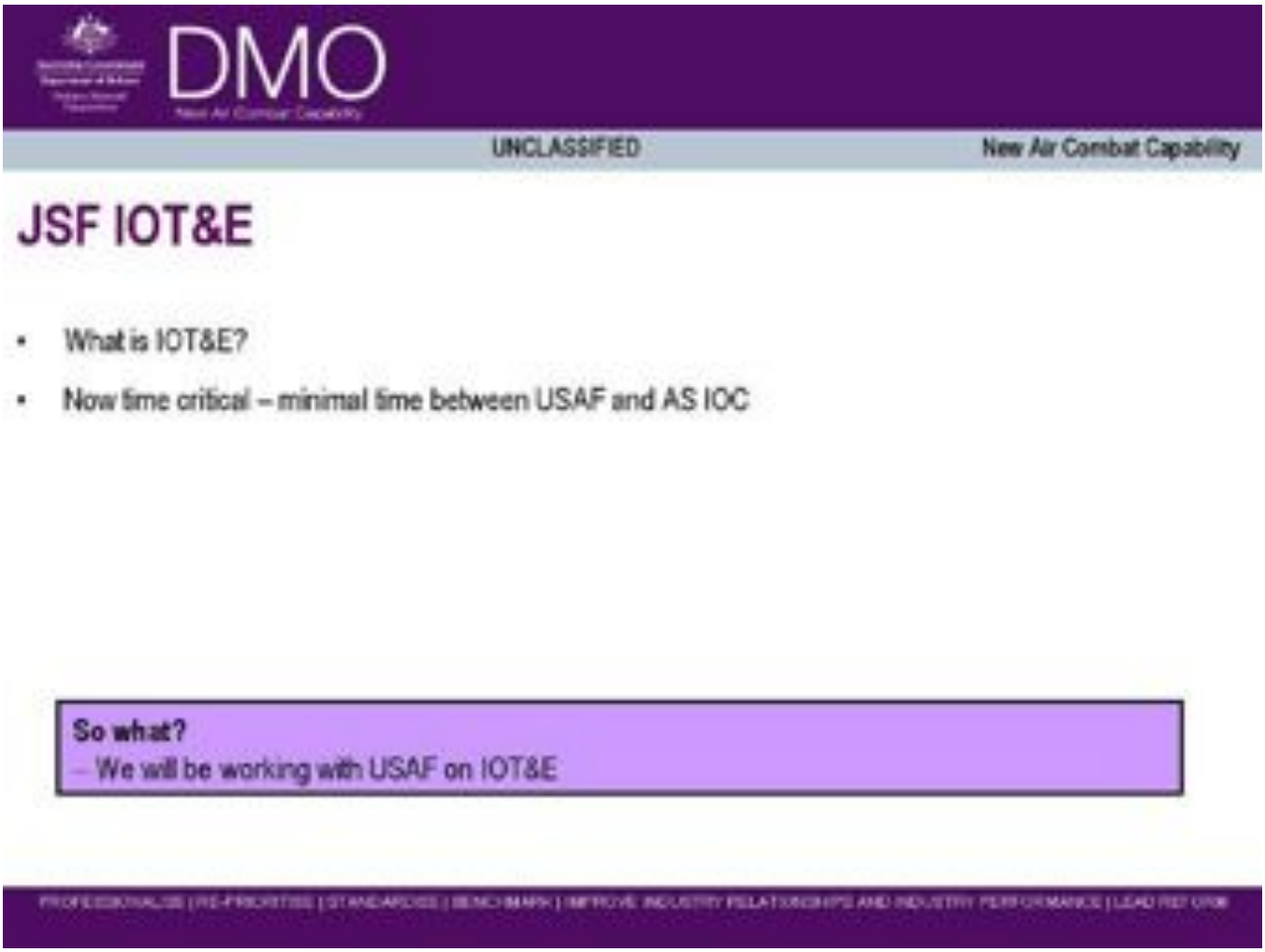
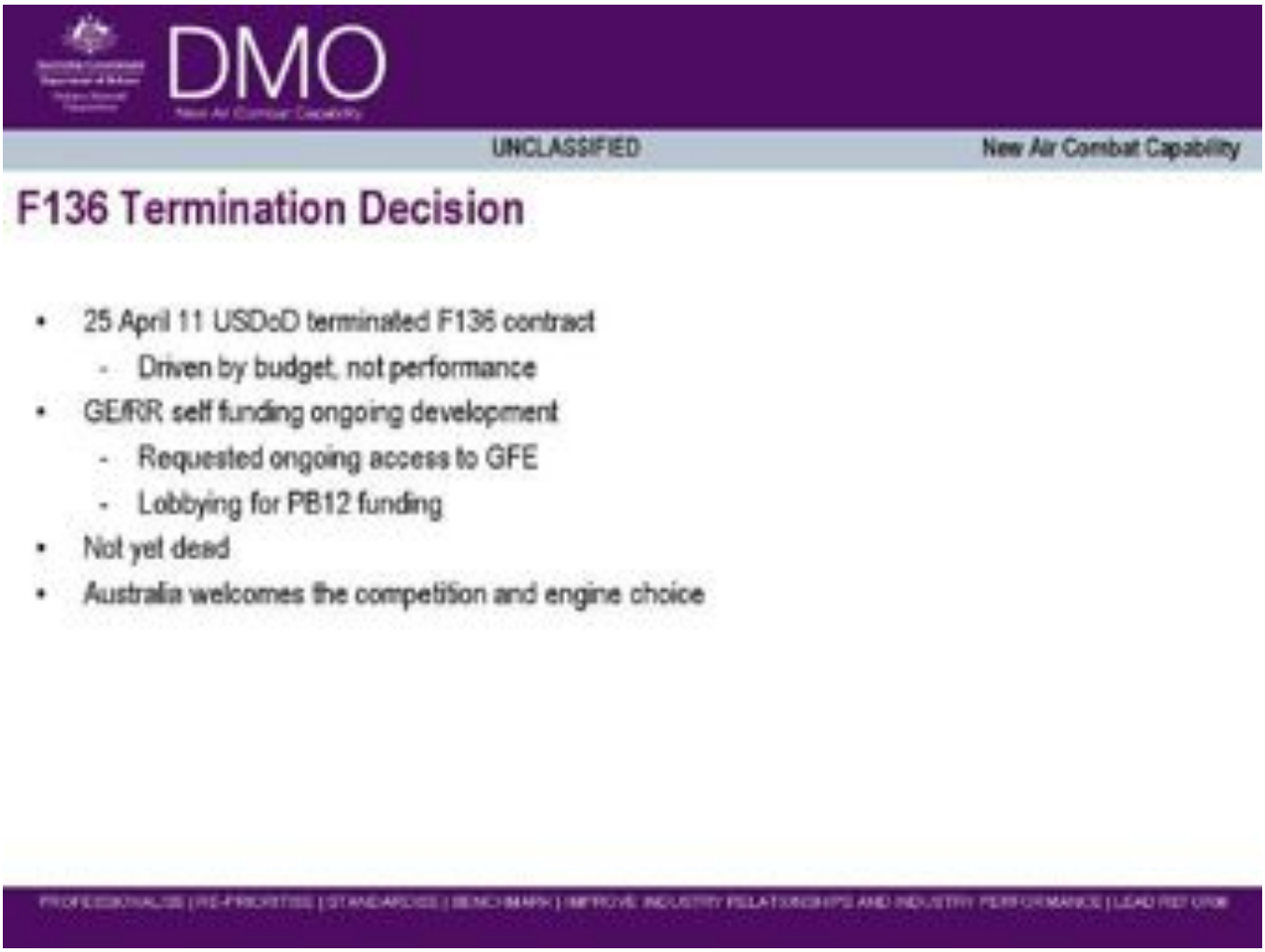
Foreign Military Sale

- **Israel**
  - First FMS customer; 19 aircraft (CTOL) to be delivered 2015 timeframe
  - Considering delaying delivery to ensure Block 3 SW delivered
- **Singapore**
  - Established FMS partner
- **Japan**
  - Sec Gates visit Jan 11 – JSF as logical choice
  - MoD "F-35 is a candidate for Japan's next-generation fighter"
  - Expected to down select by end 2011
- **Korea**
  - Considering F-35 for FX fighter program
  - RFP to be released Dec 11, seeking deliveries starting 2016 (LRIP 8)

So what?
– Fairly good FMS prospects (-:





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Project Mandates

Mandate 1 - Deliver a new air combat capability comprising around 100 CTOL F-35 Joint Strike Fighters and all necessary support, infrastructure and integration to form four operational squadrons and a training squadron.

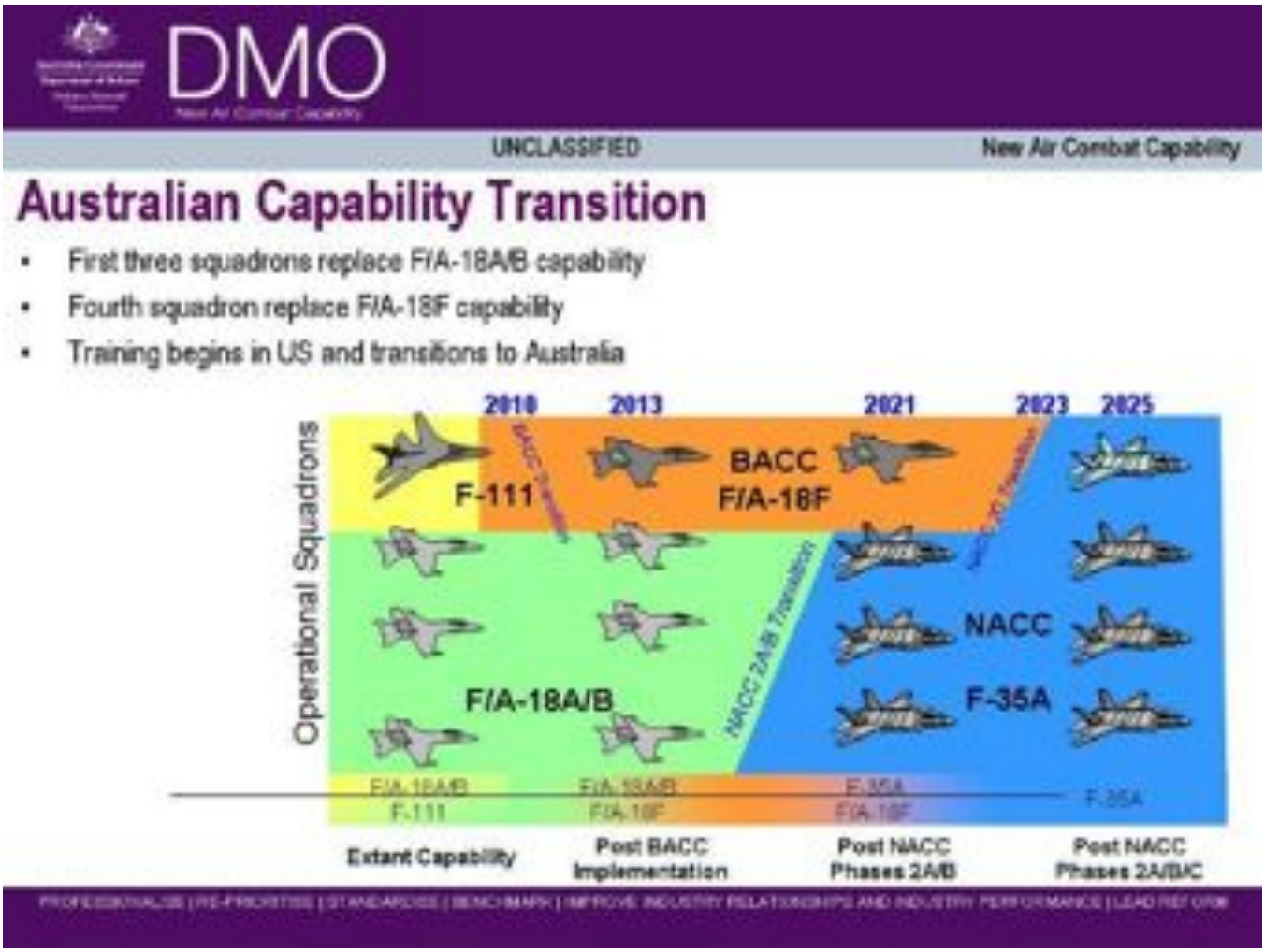
1.1 Phase 2A/B will acquire **no fewer than** 72 aircraft to form three operational squadrons and a training squadron with first deliveries in 2014 to achieve IOC in 2018 and FOC in 2021.

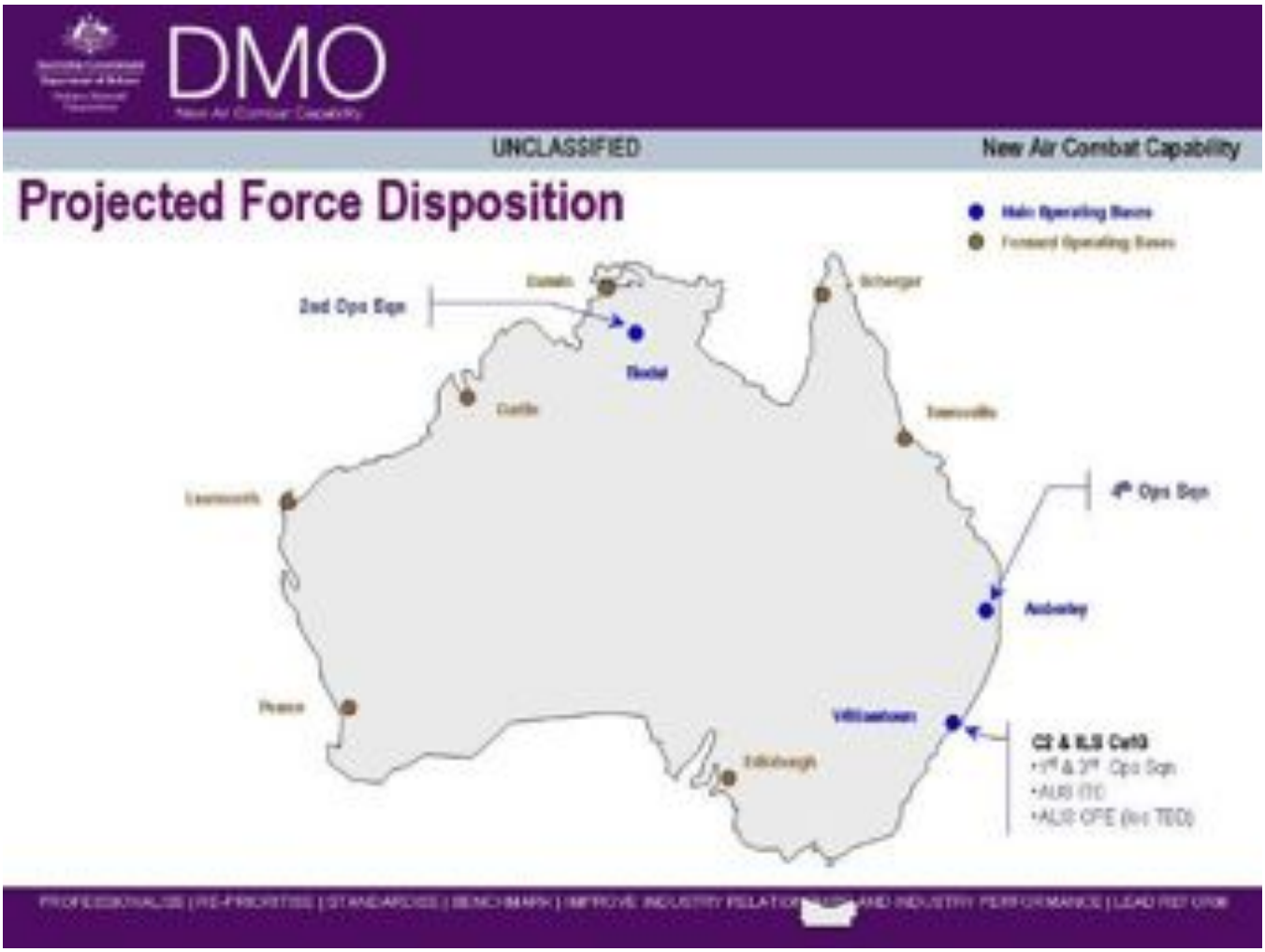
1.1.1 Stage 1 **(approved)** shall acquire an initial tranche of 14 CTOL JSF aircraft and associated support and enabling elements necessary to establish the initial training capability in the United States (US) and to allow conduct of Operational Test in the US and Australia.

1.1.2 Stage 2 **(unapproved)** shall acquire the remaining **(at least)** 58 JSF aircraft and support and enabling elements and is planned for approval in 2012.

1.2 Phase 2C **(unapproved)** shall acquire a fourth operational squadron bringing the total number of JSF aircraft to around 100. The timing for Phase 2C will be determined in conjunction with a decision on the retirement of the Super Hornet fleet.

Mandate 2 - Maximise the quality and quantity of Australian Industry and Science and Technology (S&T) participation in the global JSF program.





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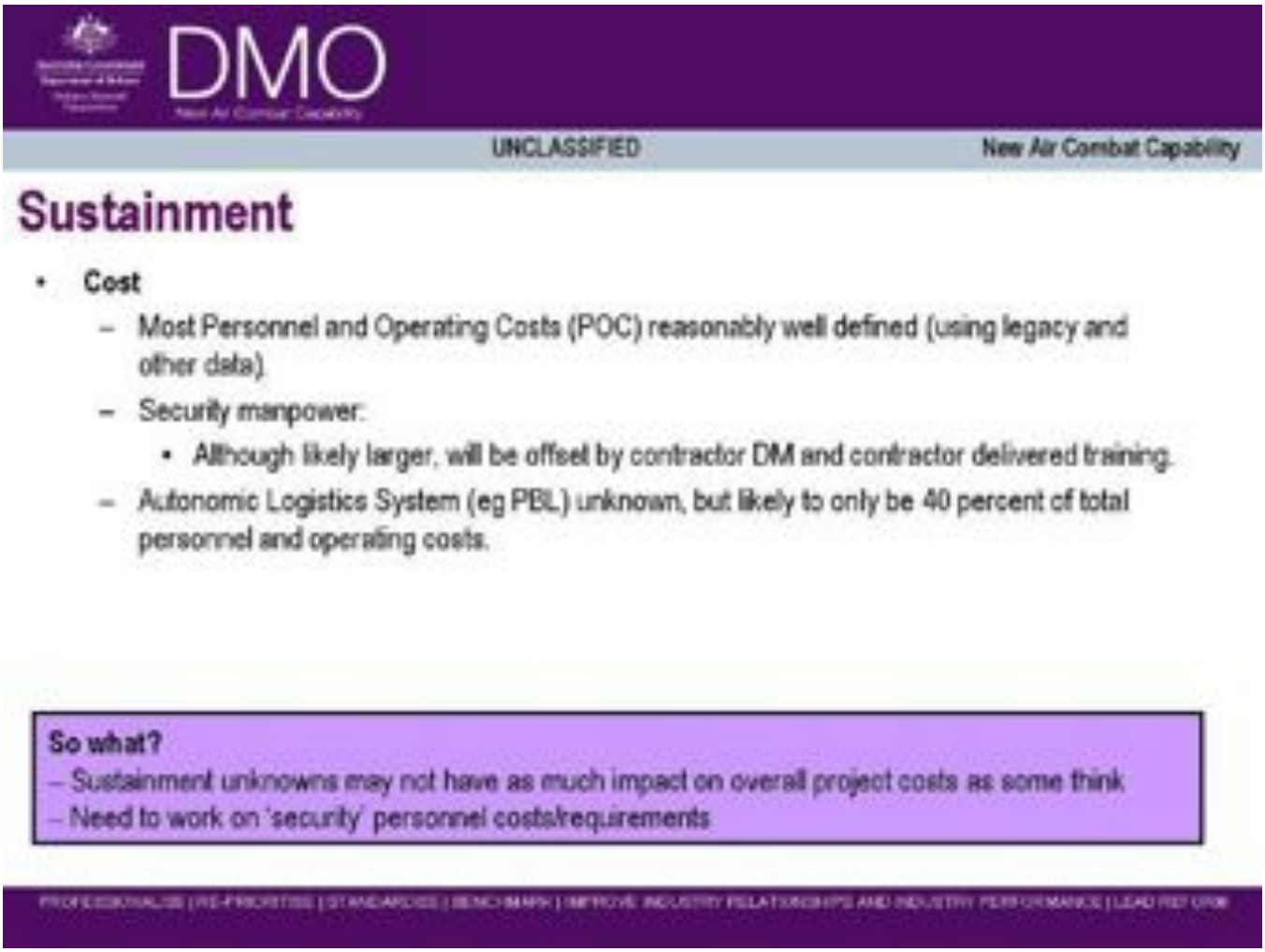
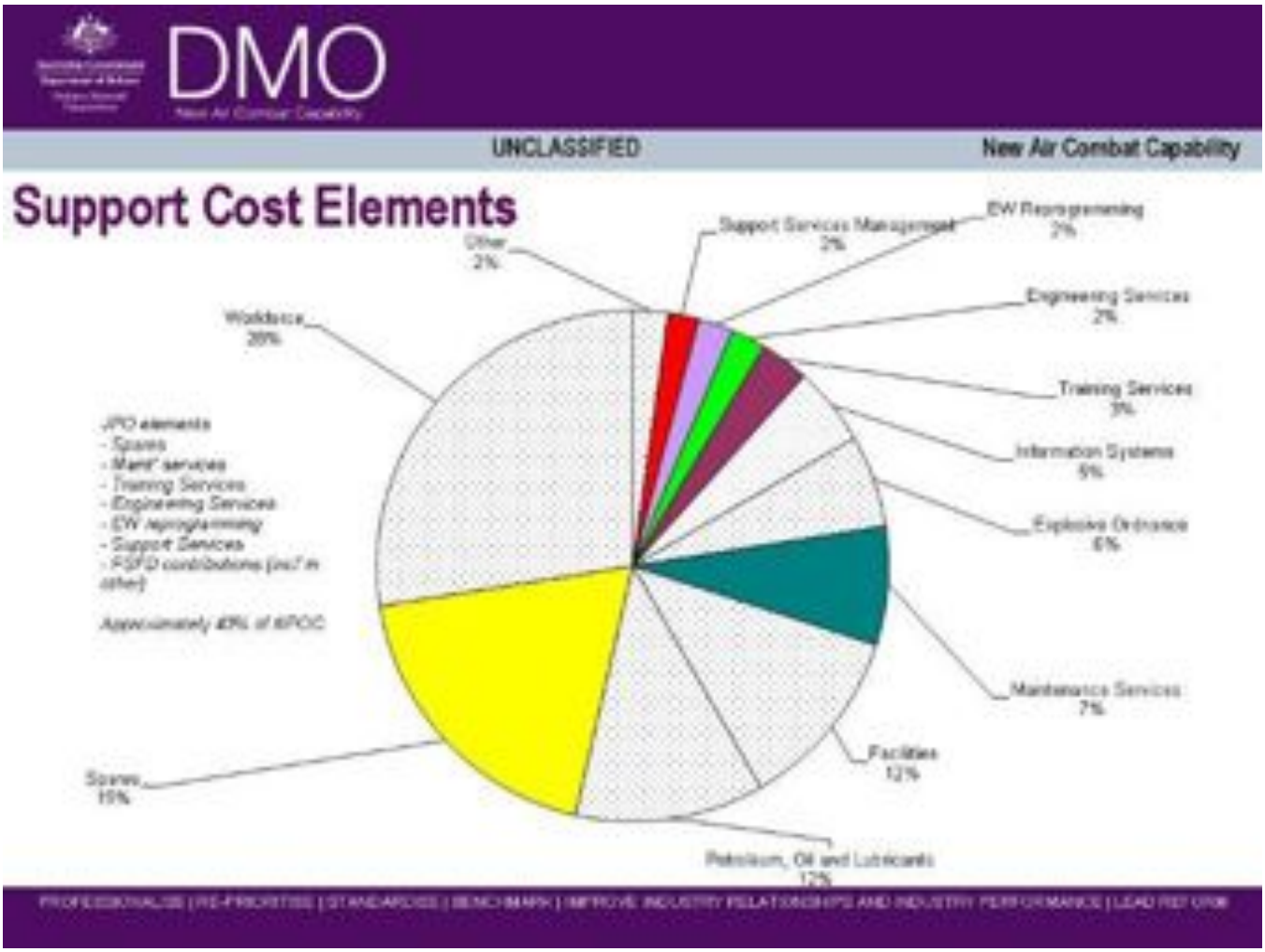
Training Stand-up in the US

- The Dutch should commence pilot training at the Eglin ITC before moving to the USAF Pilot Training Centre (expected Luke) in mid-2013
  - Australia will not be conducting pilot training at Eglin.
- Australia no longer planning to train maintainers at Eglin AFB
  - Most training will be conducted in Australia
  - Much smaller Australian footprint in the US (and lower cost!)
- Maintenance of Australian aircraft contracted while operated in the US
  - Cheaper and relieves ACG of overhead.

So what?
- Sort 'Pooling' MoU by end 2011
- We are not on critical path!
- Need to work closely with Dutch





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Expectations for In-Country Support

- Aircraft deeper maintenance (no JSF fly to the US for deeper mx)
- Regional (Australia only) warehouse/support centre (?).
- Low Observable Repaint Facility (?)
- Training facility for aircrew and support personnel (not to be shared)
- Limited component overhaul/support (?)
- Black box test facility
- Battery support
- Logistics Support Centre
  - (not much more than a shopfront)
- Weapon support
- All the above will be contractor operated.
- No software or EW programming in Australia.
- 'Warehouses' at each SQN.

vs

Biography:

Air Vice-Marshal Kym Osley AM CSC is the Program Manager New Air Combat Capability (PM NACC) within the Defence Materiel Organisation. AVM Osley joined the Air Force in January 1977. He has flown as an Air Combat Officer in F–111 strike aircraft with No 1 Squadron RAAF and on United States Air Force exchange in reconnaissance Phantoms, as well as in RF–111C aircraft with No 6 Squadron. He was the RAAF Strategic Planner in Canberra before returning to Amberley and taking command of No 1 Squadron (F–111). As a Group Captain he served in the United Kingdom as the Air Force Adviser, attended the Centre for Defence and Strategic Studies and was the Officer Commanding of No 82 Wing (F–111). In August 2004 he was posted on promotion to Director-General Capability and Plans, Canberra. He deployed as Director of the Combined Air Operations Centre in the Middle East in the period November 2006 to March 2007 where he directed Coalition air operations over Iraq and Afghanistan, returning to Australia in July 2007 to be the Commander of Air Combat Group. AVM Osley was promoted to his current rank and appointed as Head of Australian Defence Staff (Washington) in July 2008. In December 2010, AVM Osley returned to Australia to take up the position of PM NACC.